55. June 13, 1986 Letter from SSS to PADEP Regarding Building #2 Closure

Provided by: USEPA and ALLEGRO

SOLID STATE SCIENTIFIC

SOLID STATE SCIENTIFIC, INC.

3900 Welsh Road
Willow Grove, PA 19090
(215) 657-8400 TWX 510-661-726

June 13, 1986

Mr. James A. Dolan
Hazardous Waste Coordinator
Commonwealth Of Pennsylvania
Department Of Environmental Resources
520 East Broad Street
Bethlehem, Pa. 18018

Dear Jim:

Solid State Scientific, Inc. has completed the closure of the building #2 location in Montgomeryville as a generator (manufacturing location). In 1985, the treatment and storage facilities were closed and the certification and report were sent to the DER. SSSI has also had the closure of the building as a generator certified by a profession. engineer. Enclosed is a copy of the closure certification and the engineer's report.

If there are any further questions, please contact me at (215) 657-8400 extension 3367.

Sincerely,

Josephine Histand

JH/ck

cc: C.Phillips

encl.

PROFESSIONAL ENGINEER CERTIFICATION OF CLOSURE

I, Thomas G. Pullar, a Professional Engineer registered pursuant to
(Name)
the Professional Engineers Registration Law, 63 P. S. §§148 et seq., hereby certify that I have reviewed the Closure Plan for the
Building 2 - manufacturing facilities at
(Type of Facility)
Solid State Scientific, Inc., Montgomeryville Plant ("facility"),
(Name of Hazardous Waste Facility)
located at the northern corner at the intersection of Commerce Road and Enterprise Drive, Montgomery Township, Montgomery County, PA.,
(Location)
that I am familiar with the rules and regulations of the Pennsylvania Department of Environmental Resources pertaining to closure of such facility, and that I personally have made visual inspections(s) of the aforementioned facility, in addition to the visitations of my staff, and that the closure of the aforementioned facility has been performed in full and complete accordance with the facility's closure plan approved in writing by the Department of Environmental Resources on September 1, 1985, and the rules and regulations of the Department codified at 25 Pa. Code Chapter 75.

Thomas G. Pullar — 6/11/86
(Signature) (Date)

PE-033923-E
(Professional Engineering License Number)

American Resource Consultants, Inc.
450 East Street
Doylestown, PA 18901
(Business Address)

(Seal)

(215) 348-0402
(Telephone Number)

The attached engineering report describes the work performed by ARC, Inc. and is herein made a part of this closure certification.

Philadelphia, Pa. 19105

JECT: RCRA Inspection - ~~Solid State~~ Scientific - Montgomeryville, Pa DATE: 8/25/87

PAD 002278331

M: Gregory A. Koltonuk, Environmental Scientist
PA-RCRA Enforcement Section (3HW11)

File

u: Peter W. Schaul, Chief
PA-RCRA Enforcement Section (3HW11)

BASED UPON A REVIEW OF THE RCRA INSPECTION REPORT FOR THE FACILITY REFERENCED ABOVE, I HAVE DETERMINED THAT NO FURTHER ACTION IS REQUIRED AT THIS TIME.

HAZARDOUS WASTE INSPECTION REPORT
Generators - Part A

Date of inspection August 6, 1987 Time start 9:00 Time finish 9:10

Name of inspector Carol A. Quigley

Company, installation name Solid State Scientific

Location 12 Commerce Drive, Montgomeryville

County Montgomery Municipality Montgomery Twp

Identification number PAD002278331

Name of responsible official

Title

Mailing address

Area code and phone no.

Name of person interviewed

Title

Mailing address (if different from above)

Area code and phone no.

1. Current waste handling method:

   a. ☐ On-site ☐ treatment, ☐ storage, ☐ disposal

   b. ☐ On-site ☐ use, ☐ reuse, ☐ recycle, ☐ reclaim

   c. ☐ Off-site ☐ treatment, ☐ storage, ☐ disposal

   d. ☐ Off-site ☐ use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Amount of hazardous waste produced:

   a. None kg./mo.

   b. _____ kg./yr.

3. Types of hazardous waste produced by Hazardous Waste Number:

4. Are hazardous wastes transported off-site by the generator? ☐ Yes ☐ No

Part C - Comments

te of inspection 8/6/87 Identification number PAD002278331

mpany, Installation name SOLID STATE SCIENTIFIC

unty MONTGOMERY Municipality MONTGOMERY TWP.

The building which formerly housed Solid State Scientfie. is currently for sale. There was no one at this site. According to Richard Budwig of Phila. Resins (located within the same industrial park), Solid State moved out of the location on Commerce Drive in early 1986.

A review of the Regional File found that the generator closure was certified by a P.E. (see attached copies)

This inspection report is official notification that a representative of the Department of Environmental Resources, Bureau of Solid Waste Management, inspected the above installation. The findings of this inspection are shown in this report. Any violations which were uncovered during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses and review of Department records. Notification will be forthing, confirming any violations indicated herein and listing any additional violations.

Person Interviewed (signature) _____ Date _____

Inspector (signature) Carol A. Quigley Date 8/6/87

56. May 26, 1987 Boring Logs for B20, B18, B16, B14, B12, B4 and B2

Provided by: PADEP

CENTURY
LABORATORIES, INC.
P.O. Box 248/1501 Grandview Avenue/MidAtlantic Park, Thorofare, NJ 08086
Phone: (609) 848-3939 NJ 800-222-0589

REPORT #: F1173
DATE: 05/26/87

CLIENT DAMES & MOORE
4620 Strut Road
Trevose, PA 19047

SUBJECT Five (5) Samples submitted by the client on 05/08/87, and identified as: (1) 5/7/87 B2-3, (2) 5/7/87 B7-1, (3) 5/7/87 B8-1, (4) 5/8/87 B16-12, (5) 5/8/87 B17-1.

AUTHORIZATION Thor Helgason - Job #15258-005

PURPOSE Chemical Analysis

PROCEDURE Samples were analyzed in accordance with procedures presented in the following:

"Test Methods for Evaluating Solid Waste - Physical/Chemical Methods", 2nd Ed., 1984 U.S. Environmental Protection Agency (SW-846)

CENTURY LABORATORIES, INC.

Rodney T. Miller

Rodney T. Miller

lh

LOCATION OF BORING

SOLVENT RECOVERY BLDG.

BLACKTOP

• MW3

STREAM →

• B20

JOB NO.	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVELOPMENT CORP	MONTGOMERYVILLE PA

DRILLING METHOD: HOLLOW STEM AUGER

SAMPLING METHOD: DIRECTLY FROM BLADES

BORING NO. B20

SHEET 1 OF

		DRILLING START	DRILLING FINISH
WATER LEVEL	6'0"		
TIME	2:00	TIME 1:30	TIME 2:00
DATE	5/8/87	DATE 5/8/87	DATE →
CASING DEPTH			

DRILLING CONTR BEECHWOOD MT. LAUREL, NJ

INV. 68658

DATUM ELEVATION

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
		0				1	B20-1
						2	
						3	
		0				4	B20-2
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

GRASS

BROWN STIFF CLAY, SOME WEATHERED SHALE FRAGMENTS, DRY

WEATHERED SHALE, MOIST AT BOTTOM

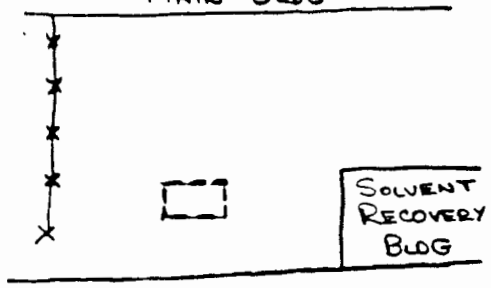
REFUSAL AT 6'0"

WELL IN HOLE - O

DATE _____ CHK'D BY _____

B1 (3) REV 11-80

LOCATION OF BORING: MAIN BLDG



DATUM: ELEVATION:

JOB NO	CLIENT	LOCATION
15258-004	HORSMAN VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: HOLLOW STEM AUGER

BORING NO: B18

SHEET: 1 OF 1

SAMPLING METHOD: FROM AUGER BLADES

					DRILLING START	DRILLING FINISH
WATER LEVEL	DRY					
TIME					11:30	11:50
DATE					5/8/87	DATE →
CASING DEPTH						

DRILLING CONTR: BEECHWOOD NT. LAUREL, NJ

No. 68674

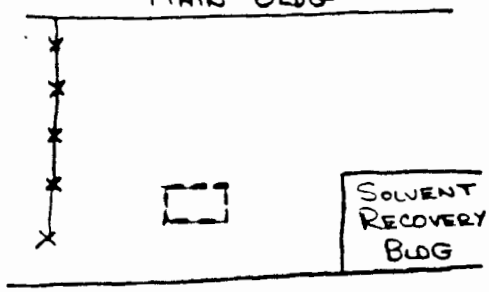
BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS: GRASS
		0		
		1	CB-1	MOTTLED BROWN & GRAY STIFF CLAY, SLIGHT ODOR AT 2-3', DRY
		2		
		3	CB-2	BROWN STIFF CLAY, DRY
		4		
		5		REFUSAL AT 5'
		6		
		7		HNu IN HOLE - 5
		8		
		9		
		0		
		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		0		

BY: WKC DATE: CHK'D BY:

1131.REV 11

C. W. K. Cook

LOCATION OF BORING: MAIN BLDG



DATUM: ELEVATION:

JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: NA

BORING NO: B16

SHEET: 1 OF

SAMPLING METHOD: SPLIT SPOONS - CONTINUOUS

DRILLING

					START TIME	FINISH TIME
WATER LEVEL	3'6"				10:30	10:50
TIME	10:50				DATE 5/8/87	DATE →
DATE	5/8/87					
CASING DEPTH						

DRILLING CONTR. BEECHWOOD MT. LAUREL, NJ

No. 68674

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
		5				1	B16-1
						2	
						3	B16-2
		400				4	
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS: GRASS

6" BROWN CLAY SOME BROKEN SHALE (DRY)

6"-3' GRAY PLASTIC CLAY (DRY)

GRAY TO BROWN STIFF CLAY, STRONG SOLVENT ODOR

REFUSAL AT 4'6"

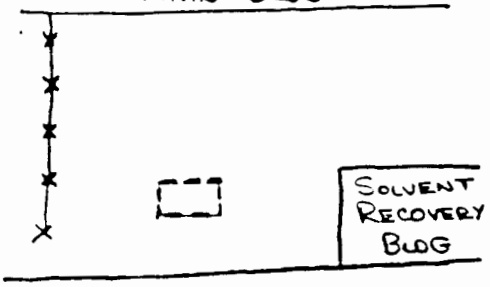
HNu IN HOLE - 200

David K. Cook

BY: KSC DATE: CHK'D BY:

(131) (REV 11 80)

LOCATION OF BORING: MAIN BLDG



JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD:

BORING NO: B14

SHEET: 1 OF 1

SAMPLING METHOD: SPLIT SPOON - CONTINUOUS

DRILLING: START TIME 9:30 DATE 5/8/87; FINISH TIME 9:50 DATE 5/8/87

WATER LEVEL	3'10"				
TIME	9:50				
DATE	5/8/87				
CASING DEPTH					

DATUM: ELEVATION:

DRILLING CONTR. LEECH WOOD MT. LAUREL, NJ

NO. 68674

SAMPLER TYPE / INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
					0	
	0				1	BH-1
					2	
					3	BH-2
	4				4	
					5	
					6	
					7	
					8	
					9	
					0	
					1	
					2	
					3	
					4	
					5	
					6	
					7	
					8	
					9	
					0	

SURFACE CONDITIONS:

GRASS

BROWN CHANGING DOWNWARD TO GRAY CLAY, LITTLE BROKEN SHALE, NO ODOR, DRY

GRAY WEATHERED SHALE, SOME CLAY, WET AT BOTTOM

REFUSAL AT 4'10"

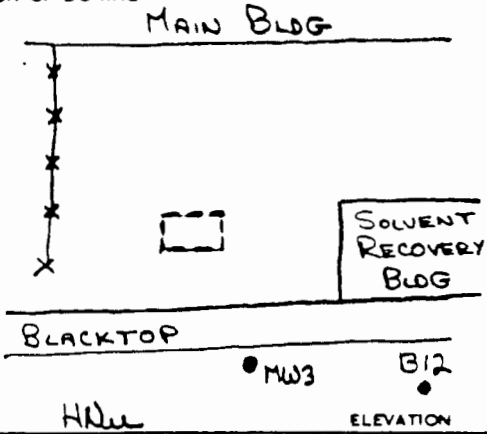
WATER IN HOLE - 5

David K. Cook

BY: _____ DATE: _____ CHK'D BY: _____

FORM 1 (3) REV 1

LOCATION OF BORING



JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD:

BORING NO. B12

SHEET 1 OF

SAMPLING METHOD: SPLIT SPOON - CONTINUOUS

DRILLING START TIME 3:00 FINISH TIME 3:20

WATER LEVEL	DRY				
TIME					
DATE					
CASING DEPTH					

DATE 5/7/80

DATUM HNu ELEVATION

DRILLING CONTR. BEECHWOOD ENT. LAUREL MT

No. 68674

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
		1				1	B12-1
						2	
						3	
		2				4	B12-2
						5	
		← 1				6	B12-3
		0				7	B12-4
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

GRASS

6" BROWN TOPSOIL W. SHALE FRAGMENTS
12" GRAY CLAY W WEATHERED SHALE } DRY
REMAINDER - BROKEN BLACK SHALE

12" GRAY WEATHERED SHALE, SOME CLAY
12" SAME, RUST BROWN } DRY

12" BROKEN GRAY SHALE
12" WEATHERED SHALE, SOME CLAY } DRY

BROKEN GRAY SHALE, DRY

REFUSAL - 7'6"

HNu IN HOLE - 0

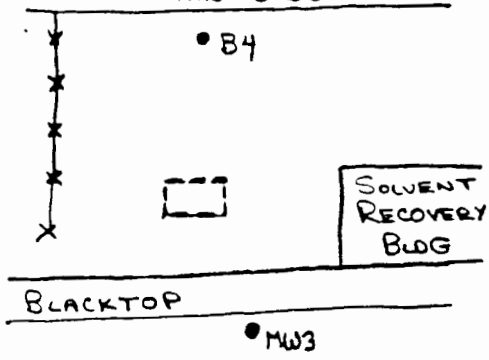
Paul E Cook

BY WKC DATE CHK'D BY

(12), (REV 11-80)

Bates & Moore

LOCATION OF BORING



JOB NO	CLIENT	LOCATION
15258-004	Horsham Valley Devel. Corp.	Montgomeryville PA

DRILLING METHOD: NA

BORING NO. E4

SHEET 1 OF 1

SAMPLING METHOD: Split Spoons

DRILLING

					START TIME	FINISH TIME
WATER LEVEL	Dry					
TIME					9:30	9:50
DATE					5/7/87	DATE
CASING DEPTH						

DATUM HNU ELEVATION

DRILLING CONTR. Biotechwood Mt. Laurel, NJ

No. 68674

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
		0				0	B4-1
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

Brown Top Soil - Silty Clay, dry

B4

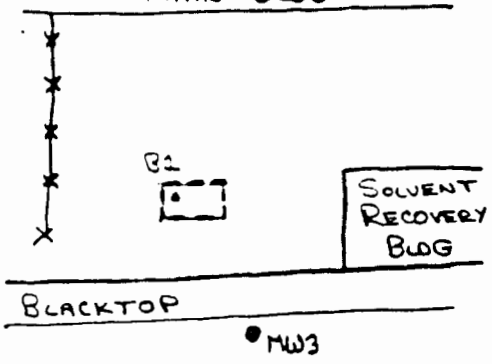
Refusal At 1' - Concrete Foundation

NOT BACKGROUND

BY WKS DATE CHK'D BY

(13) REV 11

LOCATION OF BORING



JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: NA

BORING NO.: B2

SHEET: 1 OF 1

SAMPLING METHOD: SPLIT SPOONS - CONTINUOUS

					DRILLING START TIME	DRILLING FINISH TIME
WATER LEVEL	1'6"				8:30	8:50
TIME	8:50					
DATE	5/7/87				DATE 5/7/87	DATE →
CASING DEPTH						

DATUM: HNu ELEVATION:

DRILLING CONTR. BEECHWOOD MT. LAUREL, NJ

No. 68674

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
		1				1	B2-1
						2	
						3	B2-2
		110				4	
						5	B2-3
		130				6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

WITHIN OUTLINE OF WASTE SOLVENT TANK AREA

B2

BROWN, MOTLED CLAY / WEATHERED ROCK SHALE FRAGMENTS - DRY

2" WHITE CLAY - DRY

REST - WEATHERED BLACK SHALE

WEATHERED BLACK SHALE

REFUSAL AT 7'

SAMPLE B2-3 TO CENTURY LAB FOR VOA

HNu IN HOLE - 130

BY UKC DATE CHK'D BY

(1-31) REV 11-80)

57. April 8, 1987 Letter from Dames & Moore to HVDC Regarding Groundwater Sampling, Analysis, and Data Evaluation Building No. 2

Provided by: PADEP

Dames & Moore

4620 Street Road
Trevose, PA 19047-6612
(215) 364-7910

April 8, 1987

Horsham Valley Development Corp.
107 Lakeside Drive
Horsham, Pennsylvania 19044

Attention: Mr. Ken Bissinger

Re: Report
Ground Water Sampling, Analysis
and Data Evaluation
Building No. 2
Montgomeryville, Pennsylvania

Dear Mr. Bissinger:

Dames & Moore is pleased to present this report which contains the results of the ground water sampling, analysis and data evaluation at the Solid State Scientific, Inc. (SSSI) Building No. 2 located in Montgomeryville, Pennsylvania. The purpose of this work was to evaluate potential adverse environmental impacts to the ground water resulting from past practice at Building 2.

Ground Water Sampling

On March 17, 1987, Dames & Moore collected ground water samples from the four monitoring wells located on the Building No. 2 property. These wells are numbered MW-2 through MW-5 as shown on Figure 1. The depth from the top of the 4" PVC casing to the water surface was measured in each well. The total depth of each well was also measured. Three to five well volumes were then purged from each well prior to sampling. The samples were transported to SRE Analytics, Inc. in Hatboro, Pennsylvania and analyzed for priority pollutant volatile organic compounds (VOC's) and priority pollutant metals.

Analysis

The laboratory analyses of the ground water samples obtained from MW-2 through MW-5 is provided in the appendix.

CENTURY LABORATORIES, INC.
REPORT OF RESULTS

Volatile Organics Analysis

Client: DAMES&MOORE

Report #: F1173

Sample ID: B17-1

	ug/kg			ug/kg
Chloromethane	13 U		1,2-Dichloropropane	8 U
Bromomethane	13 U		trans-1,3-Dichloropropene	6 U
Vinyl chloride	13 U		Trichloroethene	1200
Chloroethane	13 U		Chlorodibromomethane	4 U
Methylene chloride	4 U		1,1,2-Trichloroethane	6 U
Benzene	6 U		cis-1,3-Dichloropropene	6 U
1,1-Dichloroethene	4 U		2-Chloroethyl vinyl ether	13 U
1,1-Dichloroethane	6 U		Bromoform	6 U
trans-1,2-Dichloroethene	210		Chloroform	2 U
1,2-Dichloroethane	4 U		Tetrachloroethene	17
1,1,2,2-Tetrachloroethane	9 U		1,1,1-Trichloroethane	5 U
Toluene	9 B (B=2)		Carbon tetrachloride	4 U
Chlorobenzene	8 U		Ethylbenzene	384
Bromodichloromethane	3 U		1,3-Dichlorobenzene	6 U
1,2-Dichlorobenzenes	47		1,4-Dichlorobenzene	6 U

Data Reporting Qualifiers

U Indicates compound was analyzed for but not detected (eg. 10 U), based on necessary concentration/dilution. The number is the minimum attainable detection limit for the sample.

B This flag is used when the analyte is found in blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

J Indicates an estimated value, based on assumption of a 1:1 response for tentatively identified compounds, or when mass spectral data indicate the presence of a compound at levels below the specified detection limit.

CENTURY LABORATORIES, INC.
REPORT OF RESULTS

Volatile Organics Analysis

Client: Dames & Moore

Report #: F1173

Sample ID: B8-1

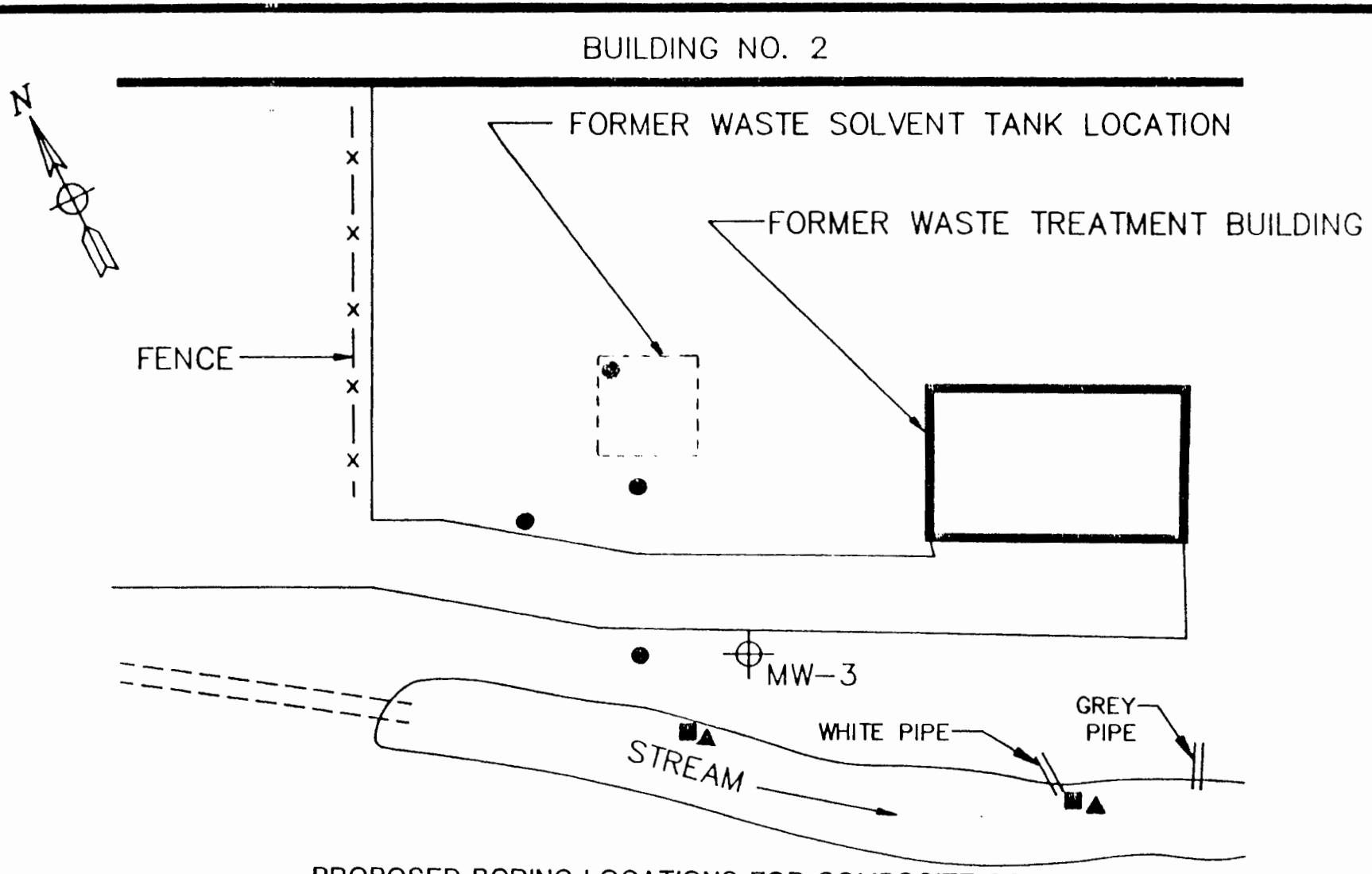
	ug/kg		ug/kg
Chloromethane	6200 U	1,2-Dichloropropane	3700 U
Bromomethane	6200 U	trans-1,3-Dichloropropene	3100 U
Vinyl chloride	6200 U	Trichloroethene	860 U
Chloroethane	6200 U	Chlorodibromomethane	1900 U
Methylene chloride	1700 U	1,1,2-Trichloroethane	3100 U
Benzene	2700 U	cis-1,3-Dichloropropene	3100 U
1,1-Dichloroethene	1700 U	2-Chloroethyl vinyl ether	6200 U
1,1-Dichloroethane	2900 U	Bromoform	2900 U
trans-1,2-Dichloroethene	10000	Chloroform	1000 U
1,2-Dichloroethane	1700 U	Tetrachloroethene	2600 U
1,1,2,2-Tetrachloroethane	4300 U	1,1,1-Trichloroethane	2400 U
Toluene	1500 J,B (B=150)	Carbon tetrachloride	1700 U
Chlorobenzene	3700 U	Ethylbenzene	33000
Bromodichloromethane	1400 U	1,3-Dichlorobenzene	3100 U
		1,2-Dichlorobenzene	860 J
		1,4-Dichlorobenzene	3100 U

Data Reporting Qualifiers

U Indicates compound was analyzed for but not detected (eg. 10 U), based on necessary concentration/dilution. The number is the minimum attainable detection limit for the sample.

B This flag is used when the analyte is found in blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

J Indicates an estimated value, based on assumption of a 1:1 response for tentatively identified compounds, or



PROPOSED BORING LOCATIONS FOR COMPOSITE SOIL SAMPLING
AND PROPOSED STREAM/SEDIMENT SAMPLING LOCATIONS

● = PROPOSED BORING
■ = PROPOSED STREAM SAMPLE
▲ = PROPOSED SEDIMENT SAMPLE

SSSI BUILDING NO.2
MONTGOMERYVILLE, PENNSYLVANIA
APPROXIMATE SCALE: 1" = 10'-0"

Dames & Moore

FIGURE 1

REPORT NARRATIVE

The following should be taken into consideration by the end user of these results:

Samples B 2-3 and B8-1 were analyzed for volatiles by GC/MS method 624 and were extracted with methanol as a medium level analysis. This procedure involves extracting 4 grams of sample with 10 ml of methanol, followed by purging 100 ul of this solution in 10 ml of water. In applying the dilution factor of 125 fold there appears to be a large concentration of toluene in the methanol blank. This is not the case, the blank exhibited an absolute amount of toluene less than 10 nanograms which correlates to a concentration of 2 ppb in the method blank. Every attempt was made to obtain a clean methanol blank, but very low levels of background toluene remained.

RALPH A. WERT, P.E., P.L.S.
HERBERT H. METZ, JR., P.E., P.L.S.
JOHN R. HUNT, P.E.
BARRY L. WERT, P.E., P.L.S.
JEFFREY A. WERT, P.E., P.L.S.
EDWARD J. BROGLEY, Chief of Survey

Herbert H. Metz, Inc.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 647
410 DERSTINE AVENUE
LANSDALE, PENNSYLVANIA
19446

Phone: 855-3111
855-1686

March 27, 1987

Dames & Moore
4620 Street Road
Trevose, PA 19047-6612

Attention: Thor Helgason, Staff Engineer

Dear Mr. Helgason:

The following are the well elevations on S.S.S. Building #2, Montgomery, PA:

WELL	#2	382.33
WELL	#3	383.44
WELL	#4	384.43
WELL	#5	389.71

Elevations were taken on top of 4" P.V.C. inside of riser.

If you have any further questions or need further assistance, feel free to call.

Sincerely,

HERBERT H. METZ, INC.

Edward J. Brogley /beh

Edward J. Brogley,
Chief of Survey

EJB:beh

D-36 060/4454

58. June 3, 1987 Report Limited Subsurface Environmental Evaluation Building #2

Provided by: PADEP

Dames & Moore
4620 Street Road
Trevose, PA 19047-6612
(215) 364-7910

June 3, 1987

Horsham Valley Development Corp.
107 Lakeside Drive
Horsham, Pennsylvania 19044

Attention: Mr. Ken Bissinger

Re: Report
Limited Subsurface
Environmental Evaluation
Building No. 2
Montgomeryville, Pennsylvania

Dear Mr. Bissinger:

1.0 INTRODUCTION

Dames & Moore is pleased to present this report which contains the results of our environmental sampling and analysis performed in the vicinity of monitoring well MW-3 at the former Solid State Scientific Inc. (SSSI) Building No. 2 site, Montgomeryville, Pennsylvania.

This study was performed in accordance with our April 30, 1987 confirming proposal that was previously authorized by Horsham Valley Development Corp. (HVDC) on April 21, 1987.

1.1 OBJECTIVES

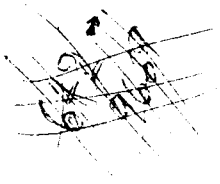
The objectives of this study were to:

- evaluate the areal and vertical extent of contaminated soil in the vicinity of monitoring well MW-3; and
- present conclusions and remedial action recommendations.

1.2 SCOPE OF WORK

In order to accomplish the objectives, Dames & Moore's scope of work consisted of the following tasks:

Task 1 - Soil Borings
Task 2 - Laboratory Analysis
Task 3 - Data Evaluation and Submittal of this Report



2.0 FIELD INVESTIGATION

2.1 SOIL BORINGS

The former SSSI Building No. 2 site is located at the northernmost corner of the intersection of Enterprise Road and Commerce Drive in Montgomeryville, Pennsylvania. Figure 1 shows a plot plan of the building, including the area of this study.

On May 7 and 8, 1987, twenty shallow soil borings were drilled in the vicinity of MW-3, as shown on Figure 2. These borings were drilled to refusal which occurred at depths ranging from 1 to 8.3 feet. The borings were drilled by Beechwood Drilling, Inc., Laurel Springs, New Jersey under the field direction of Dames & Moore. Logs of the twenty borings appear in Appendix A. Continuous split-spoon soil samples from the ground surface downward were obtained in all borings with the exceptions of B-1, B-18, B-19 and B-20. B-1 was an initial exploratory boring drilled to obtain information on drilling conditions and refusal depths likely to be encountered during the investigation. Borings B-18, B-19, and B-20 were not sampled with the split-spoon sampler due to mechanical difficulties with the cathead and hammer on the drill rig. Soil samples were obtained directly from the auger blades in Borings B-1, B-18, B-19, and B20.

Each soil sample obtained was screened in the field for organic vapors with a portable Photoionization Detector (PID) manufactured by HNu Systems, Inc., Newton, Massachusetts. The PID provides a relative indication of the presence of organic vapors in soil samples. Results are presented on the boring logs provided in Appendix A, and on Figure 3.

2.2 LABORATORY ANALYSIS

Five soil samples, one each from Borings B-2, B-7, B-8, B-16, and B-17, were sent to Century Laboratories, Thorofare, New Jersey for analysis of volatile organic compounds (VOCs). The five samples were selected based on their field measurements (1 to 500 ppm) for total volatile organic compounds. The results of the laboratory analyses are summarized below:

Boring	Sample No.	Composite Sample Depth (ft)	Volatile Organic Compounds Detected	Concentration ug/kg (ppb)
B-2	B2-3	4.5-6.5	trans-1,2-Dichloroethene	430
			Toluene	70*
			Ethylbenzene	760*
			1,2-Dichlorobenzene	420*
				1,630 mg/kg total
B-7	B7-1	0.5-2.5	Toluene	1*
			Tetrachloroethene	21
			Ethylbenzene	1*

Boring	Sample No.	Composite Sample Depth (ft)	Volatile Organic Compounds Detected	Concentration ug/kg (ppb)
B-8	B8-1	0.5-2.5	trans-1,2-Dichloroethene	10,000
			1,2-Dichlorobenzene	860*
			Toluene	1,350*
			Ethylbenzene	33,000
B-16	16-2	2.5-4.0	Toluene	60*
			Trichloroethene	1,400
			Ethylbenzene	1,600
B-17	B17-1	0.5-2.5	trans-1,2-Dichloroethene	210
			1,2-Dichlorobenzene	47
			Toluene	7
			Trichloroethene	1,200
			Tetrachloroethene	17
			Ethylbenzene	384

Notes: * indicates presence of compound below specified detection limit and estimated concentration of that compound.

The Laboratory reports are provided in Appendix B.

3.0 DISCUSSION

3.1 HYDROGEOLOGY

In general, the area of this investigation consists of approximately three to eight feet of overburden overlying bedrock. The overburden is composed primarily of mottled brown silty clay, with shale fragments near the bedrock surface. The bedrock underlying the area is thick-bedded argillite of the Lockatong Formation. The depth to water in the overburden, as measured during the drilling on May 7 and 8, 1987, ranged from 1.5 feet in Boring B-2 to 5.5 feet in Boring B-6. No water level was encountered in Boring Nos. B-10, B-12, B-13, B-18, B-19, and B-20.

Based on this investigation, it appears that the existing monitoring well MW-3, with a bottom depth of approximately 12 feet below ground surface, has a screened interval entirely in the bedrock or partially in the bedrock and partially in the overburden. The analysis of water obtained from this well on March 17, 1987, indicated 1860 ug/l of total volatile organic compounds. According to Mr. Quinn of the North Wales Water Authority, the public well nearest Building 2 is located near the

intersection of Line Street and Cowpath Road in Montgomeryville. This location is approximately 2.7 miles northwest of Building No. 2. This well, referred to as Well No. 17, is approximately 600 feet deep. The information provided by Mr. Quinn supersedes previous information provided to Dames & Moore by the North Wales Water Authority regarding the location of the public well nearest Building No. 2. Mr. Quinn stated that he is not aware of any individual, residential wells in the Montgomeryville area and stated that the North Wales Water Authority does not keep records of residential wells. Although Dames & Moore has no reason to believe any such wells exist, we have not conclusively established their absence. see the Survey in Harrisburg.

3.2 EXTENT OF OVERBURDEN CONTAMINATION

Based upon the field investigation and laboratory analysis, it appears that an area of approximately 800 square feet is contaminated with volatile organic compounds in concentrations greater than 1 ppm. The areal extent of the contaminated area, as shown on Figure 4, was evaluated in the field with the PID and supported with laboratory analysis of five selected samples. Most of the borings within the zone of contamination exhibited the highest PID readings near refusal depth. In Borings B-9 and B-17, an orange liquid was observed at the bottom of the borehole. This liquid may represent a floating phase of organic compounds on the water within the borehole. These observations indicate that the contamination extends vertically to the bottom of the overburden.

depth 20

This study did not evaluate the effects of the VOCs in the soil on the pond or the stream. The stream appears to be perched based on the water levels measured in nearby borings. No sheen, discoloration, or other visual indication of adverse environmental impacts was observed in the stream from the pond inlet to the small white pipe protruding from the stream bank. On May 7 and 8, 1987 during the field investigation, large goldfish, approximately 4 to 6 inches long, were observed swimming in the pond and in the stream. A small sheen was observed, however, downstream of the white pipe. Liquid was observed exiting this pipe, dropwise, on May 8, 1987.

4.0 RECOMMENDATIONS

4.1 SOURCE REMOVAL

Based on our investigation and evaluation of the source of contamination in monitoring well MW-3, we recommend total removal of the contaminated soil, thus removing the source of

further potential contamination. Other remedial alternatives considered were on-site vacuum extraction of volatile organic vapors and bio-reclamation. However, based on the nature and extent of the contaminated soil, it is our opinion that total removal represents the most feasible alternative, technically and economically.

The removal should extend throughout the depth of the overburden and encompass the area shown on Figure 4. Based on an areal extent of 800 square feet and an average overburden depth of six feet, approximately 180 cubic yards of contaminated soil should be removed. During the excavation and removal process, care must be taken not to impact the stream. ~ Dams + Waterways, Soil Conservation people.

The white pipe extending out of the stream bank over the stream should be removed to its point of inflow.

4.2 WELL INSTALLATIONS AND CONTINUED MONITORING

We recommend that three bedrock monitoring wells be installed at the locations shown on Figure 5. The purpose of these wells is to evaluate whether VOCs from the contaminated soil are migrating into the bedrock and moving off-site. These wells should be screened a minimum of ten feet into the bedrock aquifer and the screened interval should be sealed from the overburden. →

These three monitoring wells, along with the four existing monitoring wells, should be sampled and analyzed for VOCs on a quarterly basis for a period of one year following the removal of the contaminated soil.

5.0 CLOSURE

Dames & Moore appreciates the opportunity to be of service to the Horsham Valley Development Corp. If you have any questions, please contact us.

Very truly yours,

DAMES & MOORE
A Professional Limited Partnership

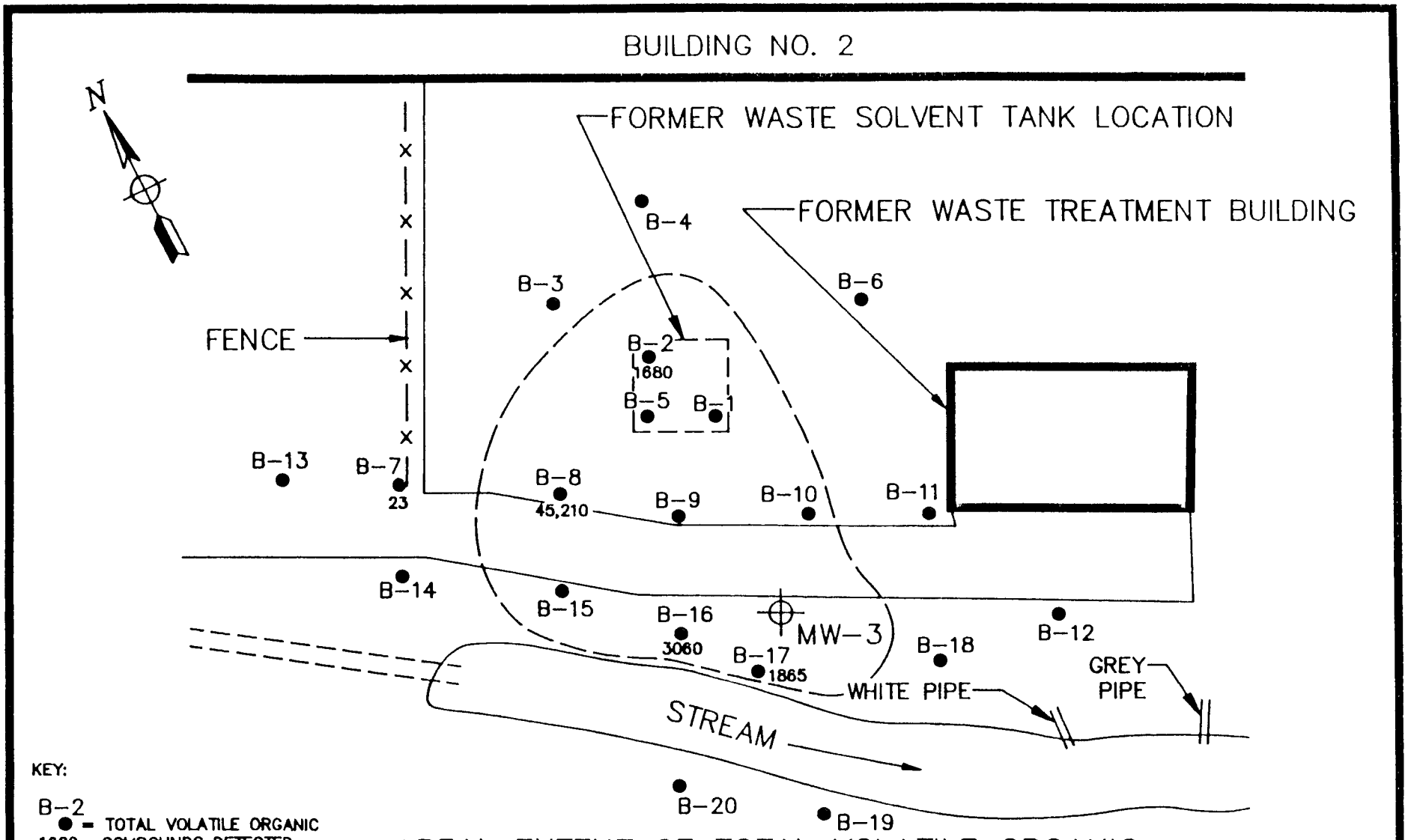
David K. Cook

David K. Cook
Associate

Thor Helgason

Thor Helgason
Project Manager

DKC/TH:jw
0953R

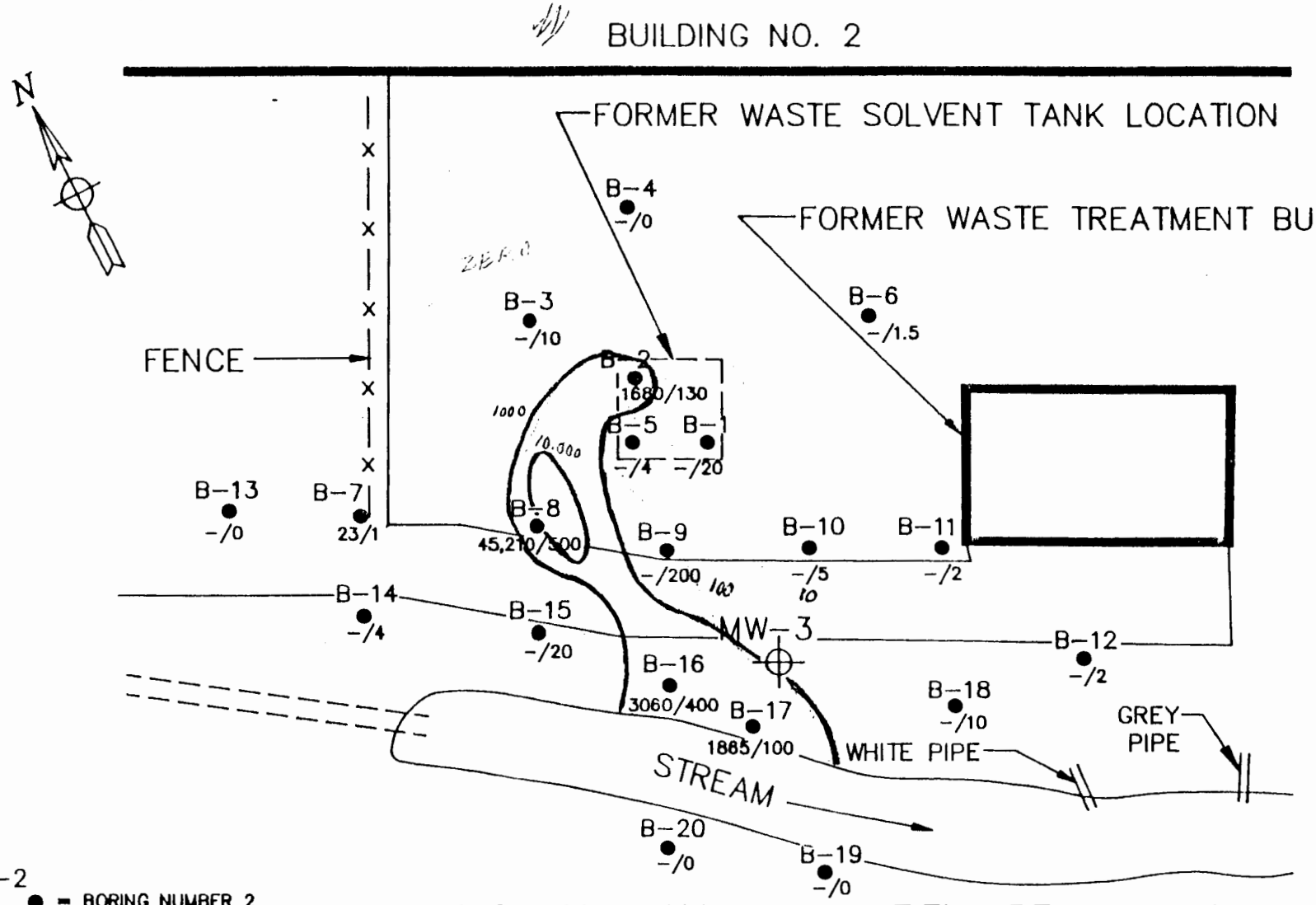


AREAL EXTENT OF TOTAL VOLATILE ORGANIC COMPOUNDS GREATER THAN 1000 PPB IN THE SOIL IN THE VICINITY OF MONITORING WELL MW-3

SSSI BUILDING NO.2
MONTGOMERYVILLE, PENNSYLVANIA
APPROXIMATE SCALE: 1" = 10'-0"

Dames & Moore

FIGURE 4


BUILDING NO. 2
N
FORMER WASTE SOLVENT TANK LOCATION
FORMER WASTE TREATMENT BUILDING
FENCE
B-4
-/0
B-3
-/10
B-6
-/1.5
B-2
1680/130
B-5
-/4
B-1
-/20
1000
10,000
B-13
-/0
B-7
23/1
B-8
45,210/500
B-9
-/200
100
B-10
-/5
10
B-11
-/2
B-14
-/4
B-15
-/20
MW-3
B-12
-/2
B-16
3060/400
B-17
1865/100
B-18
-/10
GREY PIPE
WHITE PIPE
STREAM
B-20
-/0
B-19
-/0
KEY:
B-2 ● = BORING NUMBER 2
1680/130 = TOTAL VOC'S (PPB) IN SOIL VIA LAB. ANALYSIS/FIELD PID READING (PPM) OF SAMPLE ANALYZED, OR HIGHEST PID READING AT BORING LOCATION
- - = NOT ANALYZED IN LABORATORY
disregard red lines because I didn't see this before I contoured it.
LABORATORY ANALYSIS AND FIELD READINGS OF TOTAL VOLATILE ORGANIC COMPOUNDS IN SELECTED SOIL SAMPLES, VICINITY OF MONITORING WELL MW-3
SSSI BUILDING NO.2
MONTGOMERYVILLE, PENNSYLVANIA
APPROXIMATE SCALE: 1" = 10'-0"
Dames & Moore
FIGURE 3

SRE ANALYTICS, INC.
2910 TURNPIKE DRIVE
HATBORO, PENNSYLVANIA 19040
215-674-1202

REPORT OF ANALYSIS

March 24, 1987

Dames & Moore
4620 Street Road
Trevose, PA 19407-6612
Attention: Thor Helgason

Re: Four (4) samples
SRE Ref #: 1037-031 thru 034
Sample Source: HVDC
Project Title: Pre Acq.
Job No: 15258-003
Received: 3/17/87

SRE Ref #	Sample Description
1037-031	MW-2
1037-032	MW-3
1037-033	MW-4
1037-034	MW-5

All samples described above were tested in accordance with EPA and APHA analytical procedures with the obtained test data reported on the enclosed summary sheets.

Respectfully submitted,

Philip A. Einhorn

Philip A. Einhorn
President

Ig

TABLE 1

WATER TABLE ELEVATIONS MEASURED ON
MARCH 17, 1987

Well No.	Depth from Top of PVC Casing to Water Surface (ft.)	Depth from Top of PVC Casing to Bottom of Well (ft.)	Elevation of Top of PVC Casing (ft.)	Elevation of Water Surface (ft.)
MW-2	6.06	14.20	382.33	376.27
MW-3	4.93	14.16	383.44	378.51
MW-4	2.68	13.45	384.43	381.75
MW-5	7.17	13.42	389.71	382.54

All elevations refer to National Geodetic Vertical Datum, 1929

0822R

Client: Dames & Moore
Sample Source: HVDC
Job No: 15258-003
Project Title: Pre Acq.

SRE Analytics, Inc.
(215)-674-1202
Analyst: P.A.Einhorn
Date: 3/24/87

SUMMARY OF ANALYTICAL RESULTS
EPA Method 624 - Volatiles by GC/MS

All values are reported in ug/l.

COMPOUND	Client #: MW-2	MW-3	MW-4	MW-5	MDL
	SRE #: 1037-031	1037-032	1037-033	1037-034	
Benzene	-	-	-	-	1.0
Bromodichloromethane	-	-	-	-	1.0
Bromoform	-	-	-	-	1.0
Bromomethane	-	-	-	-	1.0
Carbon tetrachloride	-	<MDL	<MDL	<MDL	1.0
Chlorobenzene	-	-	-	-	1.0
Chloroethane	-	-	-	-	1.0
2-Chloroethyl vinyl ether	-	-	-	-	1.0
Chloroform	-	<MDL	1.0	-	1.0
Chloromethane	-	-	-	-	1.0
Dibromochloromethane	-	-	-	-	1.0
1,2-Dichlorobenzene	-	-	-	-	1.0
1,3-Dichlorobenzene	-	-	-	-	1.0
1,4-Dichlorobenzene	-	-	-	-	1.0
1,1-Dichloroethane	3.3	2.7	<MDL	-	1.0
1,2-Dichloroethane	-	24.8	-	-	1.0
1,1-Dichloroethene	-	2.9	-	-	1.0
trans-1,2-Dichloroethene	1.9	1075	2	2.7	1.0
1,2-Dichloropropane	-	-	-	-	1.0
cis-1,3-Dichloropropene	-	-	-	-	1.0
trans-1,3-Dichloropropene	-	-	-	-	1.0
Ethyl benzene	-	19.5	-	-	1.0
Methylene chloride	-	-	-	-	1.0
1,1,2,2-Tetrachloroethane	-	-	-	-	1.0
Tetrachloroethene	-	3.6	-	-	1.0
Toluene	-	3.8	-	-	1.0
1,1,1-Trichloroethane	<MDL	7.1	6.6	16.1	1.0
1,1,2-Trichloroethane	-	-	-	-	1.0
Trichloroethene	2.2	636.4	3.2	21.6	1.0
Vinyl chloride	-	82.6	-	-	1.0

Client: Dames & Moore
Sample Source: HVDC
Job No: 15258-003
Project Title: Pre Acq.

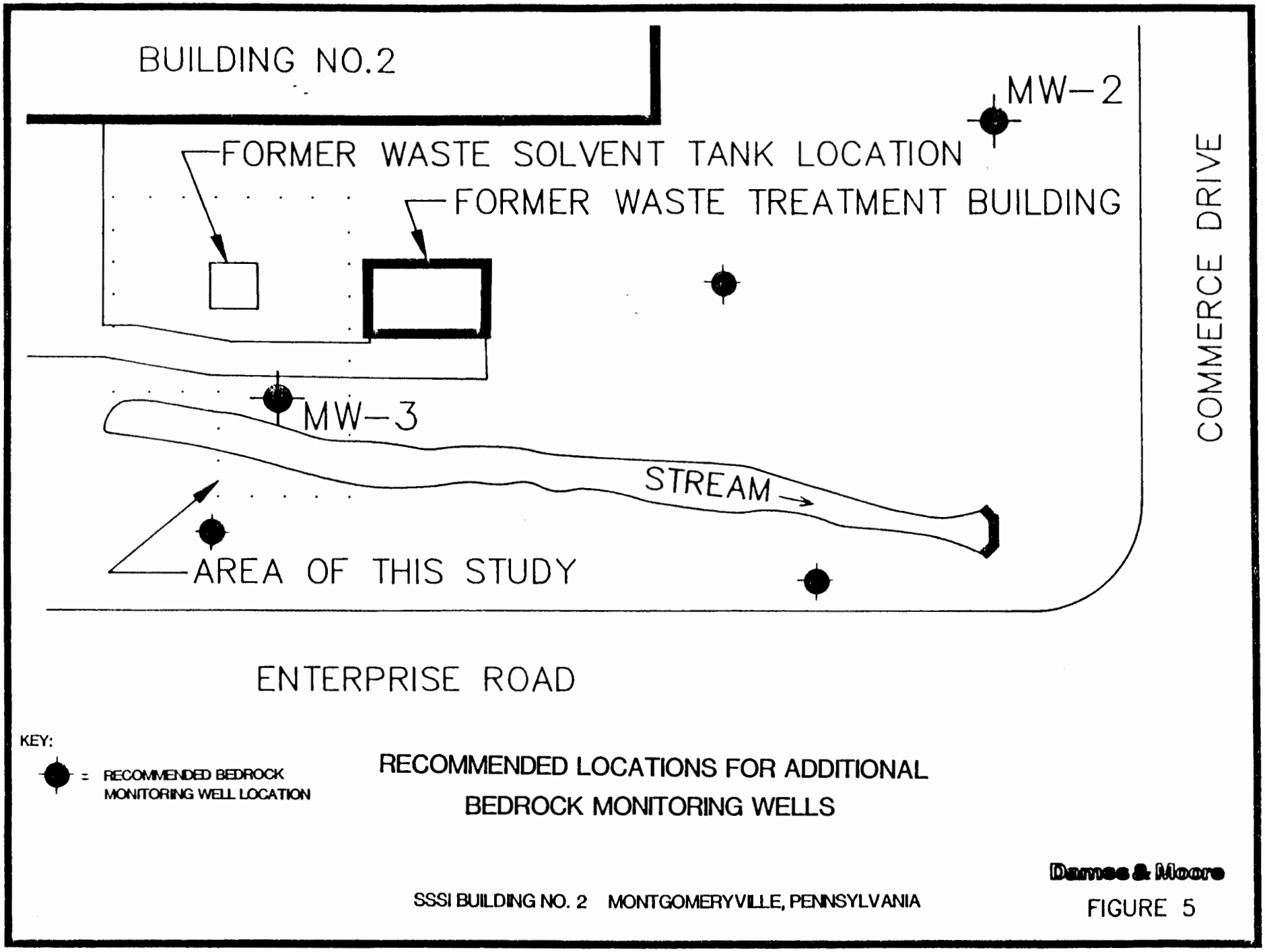
SRE Analytics, Inc.
(215) 674-1202
Analyst: R. T. Fox
Date: 3/24/87

SUMMARY OF ANALYTICAL RESULTS

Sampling Points

TEST PARAMETER	Client #: / SRE #:	MW-2 1037-031	MW-3 1037-032	MW-4 1037-033	MW-5 1037-034	*MDL
Priority Pollutant Metals, (mg/l)						
Antimony, as Sb		<MDL	<MDL	<MDL	<MDL	0.05
Arsenic, as As		<MDL	0.001	<MDL	<MDL	0.0005
Beryllium, as Be		<MDL	<MDL	<MDL	<MDL	0.05
Cadmium, as Cd		0.006	<MDL	<MDL	0.004	0.002
Chromium, as Cr		<MDL	<MDL	<MDL	<MDL	0.010
Copper, as Cu		0.01	<MDL	<MDL	<MDL	0.010
Lead, as Pb		0.01	<MDL	<MDL	<MDL	0.010
Mercury, as Hg		<MDL	<MDL	<MDL	<MDL	0.0005
Nickel, as Ni		<MDL	<MDL	<MDL	<MDL	0.01
Selenium, as Se		<MDL	<MDL	<MDL	<MDL	0.0005
Silver, as Ag		<MDL	<MDL	<MDL	<MDL	0.010
Thallium, as Tl		<MDL	<MDL	<MDL	<MDL	0.10
Zinc, as Zn		0.09	0.014	<MDL	0.036	0.010

OK



RECOMMENDED LOCATIONS FOR ADDITIONAL BEDROCK MONITORING WELLS

SSSI BUILDING NO. 2 MONTGOMERYVILLE, PENNSYLVANIA

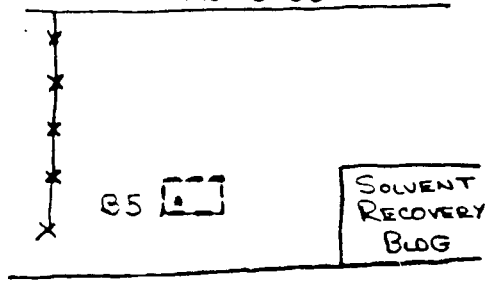
Dames & Moore

FIGURE 5

APPENDIX A

Logs of Borings

LOCATION OF BORING: MAIN BLDG



JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: NA

BORING NO. B5

SHEET 1 OF 1

SAMPLING METHOD: SPLIT SPOONS - CONTINUOUS

DRILLING

					START TIME	FINISH TIME
WATER LEVEL	2'					
TIME	10:20				10:00	10:20
DATE	5/7/87				DATE 5/7/87	DATE →
CASING DEPTH						

DATUM HNu ELEVATION

DRILLING CONTR. BEECHWOOD MT. LAUREL, NJ

No. 686741

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
						1	
		1				2	B5-2
						3	
		4				4	B5-1
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS: WITHIN OUTLINE OF WASTE SOLVENT TANK AREA

NOTE: MADE 2 ATTEMPTS

(1) - 3" TOPSOIL
VOID 3" TO ~4'5 inside of tank?
REFUSAL (WOOD?) at 4'6" ← bottom of tank
4' - 4'6" - WEATHERED ROCK / CLAY
(SAMPLE B5-1, 4-4½)

(2) - 3" TOPSOIL
VOID 3" TO ~2' inside of tank?
2' - 4' CLAY / WEATHERED ROCK
REFUSAL (WOOD?) at 4'
(SAMPLE B5-2, 2-4')

HNu IN HOLE - 4 ppM

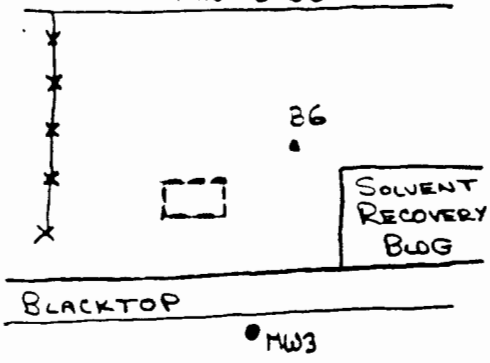
need history of site -
was tank clean closed
or was it closed at all?

Paul K Cook

BY UKG DATE CHK'D BY

(1-13) (REV 11-80)

LOCATION OF BORING



JOB NO.	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: NA

BORING NO. B6

SHEET 1 OF

SAMPLING METHOD: SPLIT SPOONS - CONTINUOUS

DRILLING

					START TIME	FINISH TIME
WATER LEVEL	5'6"					
TIME	10:50				10:30	10:50
DATE	5/7/87				DATE 5/7/87	DATE →
CASING DEPTH						

DATUM HNu ELEVATION

DRILLING CONTR. BEECHWOOD MT. LAUREL, NJ

No. 68674

BAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
		0				0	
						1	B6-1
						2	
		<1				3	
						4	B6-2
		1.5				5	B6-3
						6	
						7	
						8	
						9	
						10	
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	
						20	

SURFACE CONDITIONS:

GRASS

MOTTLED BROWN SILTY CLAY (DRY)

BROWN SILTY CLAY / WEATHERED ROCK SHALE FRAGMENTS (DRY)

SAME, IRON STAINS ON FRACTURED SHALE

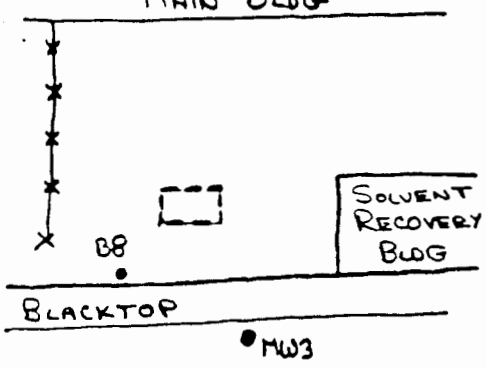
REFUSAL AT 6.5'

HNu IN HOLE - <1

BY WKS DATE CHK'D BY

(131) (REV 11-80)

LOCATION OF BORING



JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: NA

BORING NO. B8

SHEET 1 OF 1

SAMPLING METHOD: SPLIT SPOONS - CONTINUOUS

DRILLING

					START TIME	FINISH TIME
WATER LEVEL	3'6"				1:00	1:20
TIME	1:20					
DATE	5/7/87				DATE 5/7/87	DATE →
CASING DEPTH						

DATUM HNU ELEVATION

DRILLING CONTR. BEECHWOOD MT. LAUREL, NJ

No. 68674

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
		500				1	B8-1
						2	
		500				3	B8-2
		300				4	B8-3
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

GRASS

DARK BROWN GRADING DOWNWARD TO BLACK SILTY CLAY / WEATHERED ROCK W BROKEN SHALE (DRY)
STRONG SOLVENT ODOR 1-3'

GRAY BLACK SILTY CLAY / WEATHERED ROCK SOLVEN ODOR (WET)
BLACK WEATHERED SHALE (DRY)

REFUSAL AT 5'

HNU IN HOLE - 200

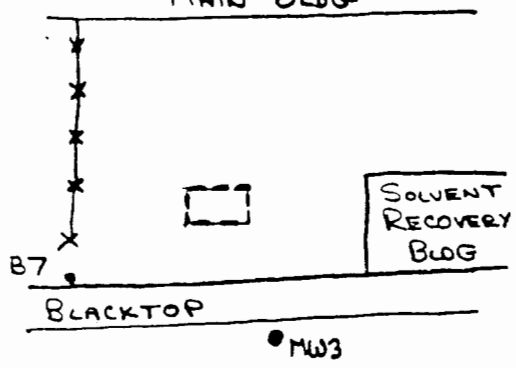
OBSERVATION - CLAY / WEATHERED ROCK IS GRAY TO BLACK WHERE SOLVENT IS HIGH

David Cook

BY DKC DATE CHK'D BY

(133) REV 11-80

LOCATION OF BORING



JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: NA

BORING NO. B7

SHEET 1 OF

SAMPLING METHOD: SPLIT SPOONS - CONTINUOUS

DRILLING

					START TIME	FINISH TIME
WATER LEVEL	4'				11:00	11:20
TIME	11:20				DATE	DATE
DATE	5/7/87				5/7/87	→
CASING DEPTH						

DATUM HNu ELEVATION

DRILLING CONTR. BEECHWOOD MT. LAUREL NJ

No. 686741

BY DKC DATE CHK'D BY

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
		1				1	B7-1
						2	
						3	
		130				4	B7-2
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

GRASS

DARK GRAY CLAY W SHALE FRAGMENTS, DRY

SAME, SOLVENT ODOR, WET AT 4'

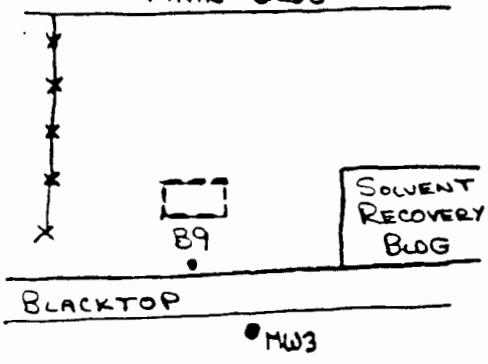
REFUSAL AT 5'

HNu IN HOLE - 2

Dave Cook

(12) (REV 11-80)

LOCATION OF BORING



JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: NA

BORING NO. B9

SHEET 1 OF 1

SAMPLING METHOD: SPLIT SPOON - CONTINUOUS

DRILLING

	START	FINISH
WATER LEVEL	4'8"	
TIME	1:50	TIME 1:30 / TIME 1:50
DATE	5/7/87	DATE 5/7/87 / DATE →
CASING DEPTH		

DATUM HNu ELEVATION

DRILLING CONTR BEECHWOOD ENT. LAUREL, MT

No. 68674

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
		10				1	B9-1
						2	
		200				3	B9-2
						4	
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

SURFACE CONDITIONS:

GRASS

MOTTLED BROWN SILTY CLAY WITH LOT OF BROKEN SHALE (DRY)

WEATHERED GRAY SHALE (DRY)

REFUSAL AT 4'10"

HNu IN HOLE - 200

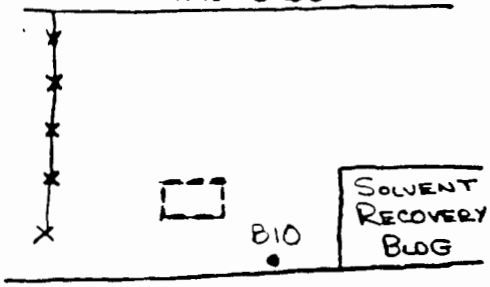
OBSERVATION - ORANGE LIQUID AT BOTTOM OF HOLE MAY BE FLOATING SOLVENT PHASE - VERY HIGH VOC

David E. Cook

BY VKS DATE CHK'D BY

(13) REV 1

LOCATION OF BORING



JOB NO	CLIENT	LOCATION
15258-004	HORSHAM VALLEY DEVEL. CORP.	MONTGOMERYVILLE PA

DRILLING METHOD: NA

BORING NO: B10

SHEET: 1 OF

SAMPLING METHOD: SPLIT SPOON - CONTINUOUS

DRILLING

					START TIME	FINISH TIME
WATER LEVEL	DRY					
TIME					2:00	2:20
DATE					DATE 5/7/87	DATE →
CASING DEPTH						

DATUM HNu ELEVATION

DRILLING CONTR BEECHWOOD ENT. LAUREL, MT

No. 68674

SAMPLER TYPE / INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
					0	
	0				1	B10-1
					2	
	5				3	B10-2
					4	
					5	
					6	
					7	
					8	
					9	
					10	
					11	
					12	
					13	
					14	
					15	
					16	
					17	
					18	
					19	
					20	

SURFACE CONDITIONS: GRASS

8" BROWN SILTY CLAY TOPSOIL

REMAINDER - BROWN MOTTLED SILTY CLAY/ WEATHERED ROCK (SHALE), DRY

BROWN TO GRAY WEATHERED SHALE (DRY)

REFUSAL - 4'6"

HNu IN HOLE - <1

BY UKC DATE CHK'D BY

(1-13) REV 11-80)

Data Evaluation

For the purpose of evaluating the ground water analytical data, the priority pollutant levels detected at Building No. 2 are compared to corrective action levels in ground water, as established by the New Jersey Department of Environmental Protection (NJDEP), Bureau of Industrial Site Evaluation. These corrective action levels were promulgated pursuant to New Jersey's Environmental Cleanup Responsibility Act (ECRA), and will hereinafter be referred to as ECRA action levels. The Commonwealth of Pennsylvania, as of the date of this report, does not have specific corrective action levels for industrial sites but House Bill No. 1574 is presently pending; hence, ECRA action levels are used in evaluating ground water analytical data for Building No. 2.

Based on the laboratory results, the ground water samples obtained for this investigation contain only trace quantities of five of the thirteen priority pollutant metals. The levels detected are very low, approaching analytical detection limits and are not considered to represent adverse environmental impacts. dk

Priority pollutant volatile organic compounds (VOC's) were detected in all four ground water samples. Samples obtained from MW-2, MW-4 and MW-5 contained a combined total of five volatile organic compounds. The levels of VOC's detected in these three wells are low and do not represent significant adverse environmental impacts. However, monitoring well MW-3 contained significant levels of trans-1,2,-Dichloroethene (1075 ug/l), Trichloroethene (636.4 ug/l), Vinyl Chloride (82.6 ug/l), and 1,2-Dichloroethane (26.8 ug/l). These levels are considered to represent adverse environmental impacts. This well is located downgradient of Building No. 2 as indicated by the water table elevations recorded on March 17, 1987 (Table 1). Ground water appears to flow in a south-southeasterly direction. The concentrations of VOC's detected in MW-3, indicate an upgradient source. Based upon our knowledge of the site and our review of two closure reports furnished to us by HVDC for a previous study (Report, Pre-Acquisition Environmental Audit, Industrial/Manufacturing Building, Montgomeryville, Pennsylvania - Dames & Moore, March 5, 1987), it is our opinion that the source of the contaminants detected in MW-3 is contaminated soil present in the vicinity of the waste treatment plant and the former bulk solvent storage area. The areal and vertical extent of the contaminated soil can not be evaluated with the available information.

* need to see these reports.
* What wastes were disposed/stored in tank ... ?
Vertical extent ?

We recommend that the areal and vertical extent of the contaminated soil be evaluated, in order to evaluate potential costs for remedial action at the site. As we discussed, we will present remedial investigations and cleanup options and their associated costs at a meeting during the week ending April 17, 1987.

We appreciate the opportunity to be of service. If you have any questions, please call.

Very truly yours,

DAMES & MOORE

Thor Helgason
Project Manager

David K. Cook
Associate

TH/DKC:jw

0802R

59. November 2, 1987 Letter from PADEP to HVDC Regarding Groundwater Contamination

Provided by: PADEP

Mont. Twp.
Mont. Co.
Correspondence

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
1875 New Hope Street
Norristown, PA 19401
215 270-1948

November 2, 1987

Mr. Ken Bissinger
Horsham Valley Development Corporation
107 Lakeside Drive
Horsham, PA 19044

Re: Solid State Scientific, Inc.
Montgomeryville
Montgomery County

Dear Mr. Bissinger:

The Department's technical staff has completed a review of your company's report and work plan and offer the following comments:

Information provided by the consultant (Thor Helgason of Dames and Moore) revealed that an unknown prospective property owner installed four wells at the site. Subsequent ground water sampling revealed the volatile contamination in well 3. The solvents apparently originated in an underground tank used to store waste solvent from an electroplating operation. A closure plan was developed and carried out: Removal of the tank and its piping took place.

The Department concurs with the consultant's position to remove soil from the areas around well No. 3.

Furthermore the work plan and report are approved with the following exceptions.

1. The Bureau of Dams and Waterways should be notified of the soil removal activity near a stream; contact person Mr. John Smith (215-584-5566).

2. The voids encountered in boring 5 should be explained;

3. In task 6 of the work plan, regardless of the screening process used to identify contamination, soil removal should continue until 1 ppm total volatile organics remain in the soil.

4. Material used for backfilling should minimize infiltration of runoff into the area.

If you have any further questions concerning this matter, please contact Sarah Pantelidou or the undersigned at the above number.

Very truly yours,

GEORGE DANYLIW
Solid Waste Operations Supervisor

cc: Ms. Pantelidou
Ms. Quigley
Mr. Smith
Re 30 (SMC)302.2

60. September 15, 1987 Letter from Dames & Moore to USEPA regarding Request for EPA I.D. Number

Provided by: USEPA

DAMES & MOORE A PROFESSIONAL LIMITED PARTNERSHIP
3600 STREET ROAD, TELEWOOD, PENNSYLVANIA 19087 (215) 364-7510

Folder → SOLID STATE SCIENTIFIC
PAD 00 227 831

RFD #18

September 15, 1987

United States Environmental Protection Agency
Waste Management Branch
841 Chestnut Street
Philadelphia, Pennsylvania 19107

Attention: Mr. Garth Conner

Re: Request for EPA I.D. Number
Horsham Valley Development Corp.
Horsham, Pennsylvania

Dear Mr. Conner:

The purpose of this letter is to request, on behalf of our client, Horsham Valley Development Corp (HVDC), an EPA I.D. Number. This request is made pending identification and listing, under 40 CRF Part 261, of approximately 250 tons of in-place contaminated soil on property recently purchased by HVDC. HVDC, although in no way responsible for creating or contributing to the creation or existence of the contaminated soil, fully intends to remove and properly dispose of the soil from the property. To accomplish this, an EPA I.D. Number is necessary, as HVDC will become a one-time generator.

Your response to this request will be greatly appreciated. If you have any questions, please contact me.

Very truly yours,

DAMES & MOORE
A Professional Limited Partnership

Thor Helgason

Thor Helgason
Project Engineer

TH:jw

cc: Ken Bissinger - HVDC

1303R

Put in Solid State file
per Glenn Leland
9/24/87

Please print or type with ELITE type *(12 characters per inch)* in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 9-30-88.
GSA No. 0246-EPA-OT

United States Environmental Protection Agency
Washington, DC 20460

EPA Notification of Hazardous Waste Activity

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law *(Section 3010 of the Resource Conservation and Recovery Act).*

For Official Use Only

Comments: C C

Installation's EPA ID Number: C F T/A C 1 | Approved | Date Received (yr. mo. day)

I. Name of Installation

HORSHAM VALLEY DEVELOPMENT CORPORATION - BUILDING NO. 2

II. Installation Mailing Address

Street or P.O. Box: C 3 200 GIBRALTAR RD.

City or Town: C 4 HORSHAM | State: PA | ZIP Code: 19044

III. Location of Installation

Street or Route Number: C 5 160 COMMERCE DR.

City or Town: C 6 MONTGOMERYVILLE | State: PA | ZIP Code: 18936

IV. Installation Contact

Name and Title *(last, first, and job title)*: C 2 KEN BISSINGER - VICE PRESIDENT

Phone Number *(area code and number)*: 215 675 5456

V. Ownership

A. Name of Installation's Legal Owner: C R HORSHAM VALLEY DEVELOPMENT CORPORATION

B. Type of Ownership *(enter code)*: P

VI. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to instructions.)*

A. Hazardous Waste Activity

- [X] 1a. Generator
- [ ] 1b. Less than 1,000 kg/mo.
- [ ] 2. Transporter
- [ ] 3. Treater/Storer/Disposer
- [ ] 4. Underground Injection
- [ ] 5. Market or Burn Hazardous Waste Fuel *(enter 'X' and mark appropriate boxes below)*
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner

B. Used Oil Fuel Activities

- [ ] 6. Off-Specification Used Oil Fuel *(enter 'X' and mark appropriate boxes below)*
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner
- [ ] 7. Specification Used Oil Fuel Marketer *(or On site Burner)* Who First Claims the Oil Meets the Specification

VII. Waste Fuel Burning: Type of Combustion Device *(enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)*

- [ ] A. Utility Boiler
- [ ] B. Industrial Boiler
- [ ] C. Industrial Furnace

VIII. Mode of Transportation *(transporters only — enter 'X' in the appropriate box(es)*

- [ ] A. Air
- [ ] B. Rail
- [ ] C. Highway
- [ ] D. Water
- [ ] E. Other *(specify)*

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

- [X] A. First Notification
- [ ] B. Subsequent Notification *(complete item C)*

C. Installation's EPA ID Number

ID — For Official Use Only														
C													T/A	C
W														1

X. Description of Hazardous Wastes *(continued from front)*

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 *CFR* Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
7	8	9	10	11	12

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 *CFR* Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 *CFR* Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48

D. Listed Infectious Wastes. Enter the four-digit number from 40 *CFR* Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40* CFR *Parts 261.21 — 261.24)*

☐ 1. Ignitable *(D001)* ☐ 2. Corrosive *(D002)* ☐ 3. Reactive *(D003)* ☐ 4. Toxic *(D000)*

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
Kenneth L. Bissinger	KEN BISSINGER - VICE PRESIDENT	SEPTEMBER 15, 1987

Vice President

61. January 21, 1988 Desk Memorandum regarding Site Visit

Provided by: PADEP

COMMONWEALTH OF PENNSYLVANIA
STD-502 REV. 4-83

DESK MEMORANDUM

SUBJECT: S,S,S, Inc.

TO	FROM
File	Sarah
DATE SENT: 1/21/88	DATE NEEDED:

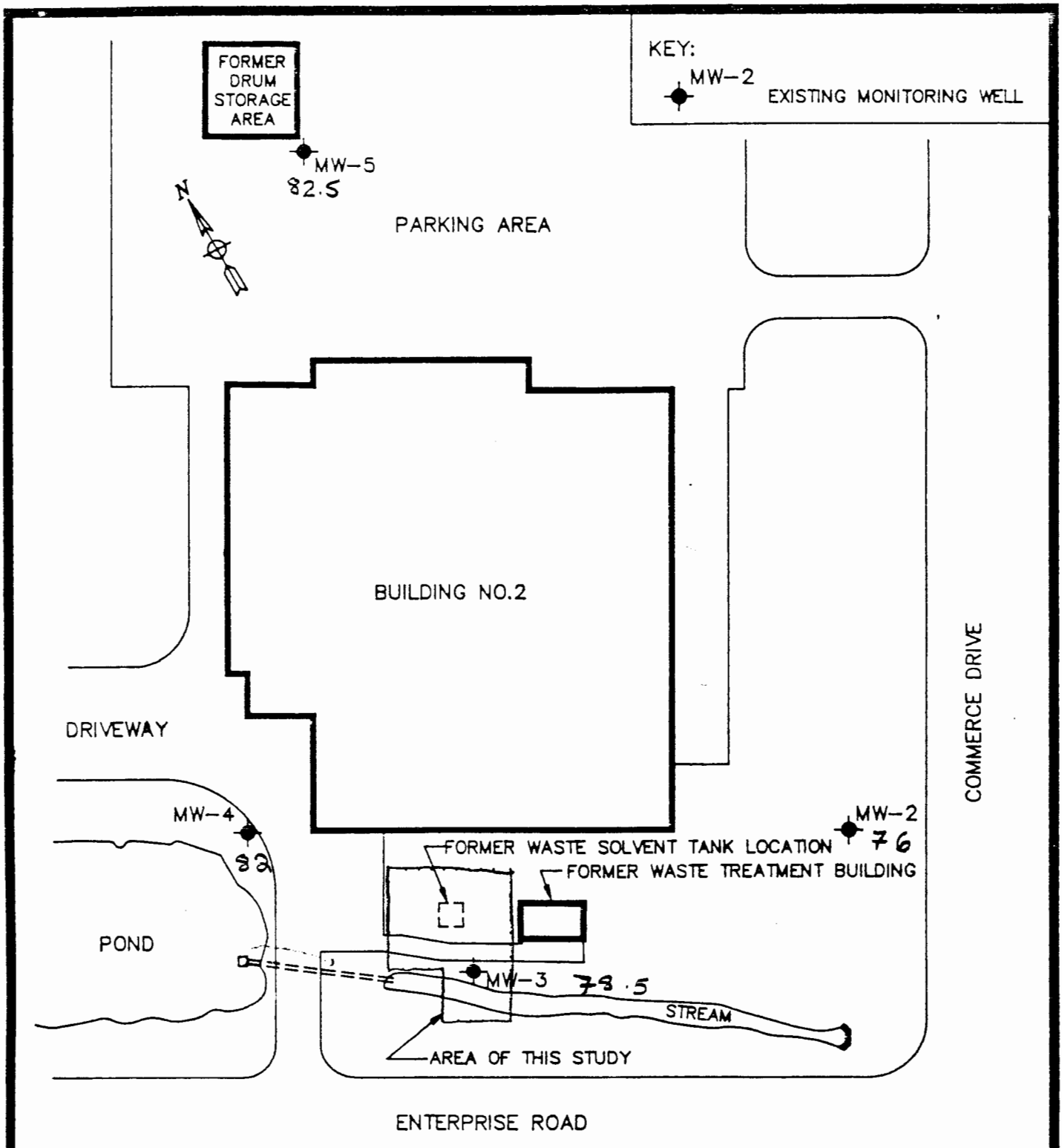
	PLEASE CALL:		APPROVAL		SEE ME
	RETURNED YOUR CALL		AS REQUESTED		COMMENT
✓	INFORMATION & FILE		PREPARE REPLY/REPORT		NOTE AND RETURN
	NECESSARY ACTION		SIGNATURE		

RECEIVED BY	DATE	TIME

ROUTE	INITIAL	DATE	ROUTE	INITIAL	DATE

MESSAGE:

Site visit 1/21/88 with Carol Quigley;
Met w) Thor H. + Blake M. of Dames + Moore. They're excavating a 30' x 30' x 4' deep hole to bedrock w) backhoe + bucket.
Are limited by stream + blg. foundation
C. Quigley will discuss cleanup levels with George.....
We need to see results below or = 1 ppm
Can backfill



PLOT PLAN SHOWING MONITORING WELL LOCATIONS AND STUDY AREA

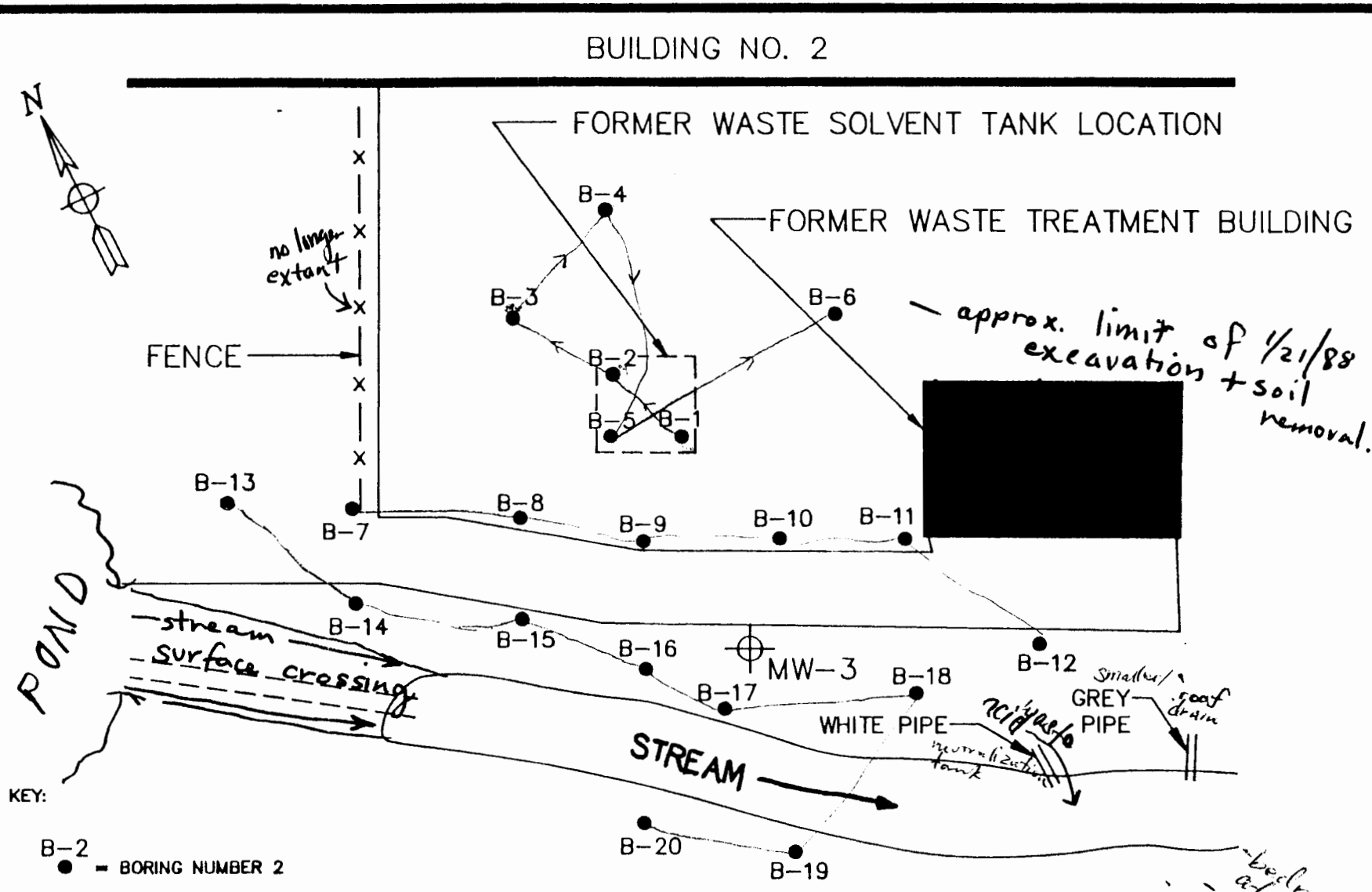
SSSI BUILDING NO.2

MONTGOMERYVILLE, PENNSYLVANIA

(NOT TO SCALE)

Dames & Moore

FIGURE 1



BORING LOCATION PLAN
VICINITY OF MONITORING WELL MW-3
SSSI BUILDING NO.2
MONTGOMERYVILLE, PENNSYLVANIA
APPROXIMATE SCALE: 1" = 10'-0"

Dames & Moore
FIGURE 2

62. May 22, 1985 Storch Engineers Field Report #2

Provided by: ALLEGRO

STORCH ENGINEERS
220 RIDGEDALE AVENUE. P.O. BOX 267. FLORHAM PARK. NJ 07932
(201) 822-2600

Field Report No. 2, S.E. #1559 May 22, 1985

Site Location: Building No. 2
Solid State
Scientific, Inc. (SSSI)
Montgomeryville, PA

Weather: Sunny
Temp: 75°
Winds: Southerly

The purpose of being on site this date was to observe the removal of the waste solvent tank and sample the soil beneath the gravel bedding at the bottom of the pit, and to observe the removal of bituminous pavement and pavement subgrade subject to contamination from chemical spills in the drum storage area and obtain a soil sample from beneath the twelve inches of subgrade soil to be removed with the pavement.

I arrived at the site at 9:45 am. Three technicians from AETC were opening drums stored in the drum storage area and Leif Liberg was evaluating the entrance into the drum storage area. A John Deere backhoe model JD410 was sitting on the trailer on which it had been shipped on.

Leif had refused the use of this backhoe since the cab height would not permit the backhoe to have the necessary roof clearance for the backhoe to enter the drum storage area. The backhoe was shipped without a dipper bucket and was incapable of excavating without it.

The backhoe was returned and an attempt was made to rent a backhoe from Case Industries located about one half of a mile from the site. A backhoe was available, but could not be delivered to the site as it was not licensed for road travel and no tractor trailers were available. An attempt was made to obtain a police escort for the backhoe, but the Chief of Police was not available to approve the police escort.

The waste solvent pit had approximately 4" of water in it which accumulated from ground water and rain water the night before.

I left the site at 11:00 am.

Gregory A. Anfuso,

63. May 23, 1985 Storch Engineers Field Report #3

Provided by: ALLEGRO

STORCH ENGINEERS
220 RIDGEDALE AVENUE. P.O. BOX 267. FLORHAM PARK. NJ 07932
(201) 822-2600

Field Report No. 3, S.E. #1559 May 23, 1985

Site Location: Building No. 2
Solid State
Scientific, Inc. (SSSI)
Montgomeryville, PA

Weather: Rain
Temp: 65°
Winds: Westerly

The purpose of being on site this date was to collect the soil samples following the excavation of the bituminous pavement and soil subgrade in the drum storage area and the removal of the waste solvent storage tank in the timber walled pit.

I arrived at the site at 12:15 pm. The excavation of a portion of the drum storage area and the removal of the waste solvent storage tank had been completed with a Case 580E backhoe.

Josephine Histand of SSSI and Leif Liberg and Hal Grant of AETC were present at the site in Building 2 upon my arrival. We proceed to the southerly side of the site where the timber walled solvent storage pit was located. Leif placed the Trident submersible pump into the pit to pump out the accumulated rainwater and ground water.

We then proceeded to the drum storage area to review the area excavated. Leif Liberg stated that the 2" pavement and 12" to 16" of soil removed below were done under the direction of Hal Grant of AETC. Excavation was done in the southerly quadrant of the area since the area slopes in that direction. There was some dark staining on the pavement on the easterly side of the area excavated, but Leif stated there was no cause for concern over these stains. All excavated materials had been placed in a covered dumpster trailer.

Leif, Hal and Josephine left the site at approximately 12:50 pm.

I went into the drum storage area after suiting up for protection from possible hazards and used the trowel to obtain soil from 3 locations in

the excavated portion (see figure 1) of the area for sample SSSI-2 which is to be tested for EP toxicity metals, ignitability, reactivity and corrosivity. There was a seam of gray clayey material that differed from the red-brown clayey soil in the area. A portion of the gray material was included in the sample since it was located at a depth of 12" below the pavement under the asphalt berm. The material seemed to extend beyond the limits of the drum storage area.

After cleaning the trowel, I went to the waste solvent storage pit to obtain sample SSSI-3. I had left instructions with Leif Liberg on the previous day to have the backhoe excavate through the gravel bottom of the pit in three locations (see figure 2). The samples were obtained with the trowel in the three locations. The soil below the angular gravel in the pit was a fractured shale with sandy clay in the seams. Ground water was running through the shale and the angular gravel. Use of the pump in each small excavated area was required in order to obtain the sample.

Following the cleanup and storage of the equipment, I left the site at 3:00 pm.

Samples SSSI-2 and SSSI-3 were packaged and sent out this day via Federal Express by Dave Scaturo.

Gregory A. Anfuso,

64. December 19, 1991 Operating Permit #46-318-023 (1st page only)

Provided by: MOYCO

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
FIELD OPERATIONS - AIR QUALITY CONTROL

OPERATING PERMIT

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the rules and regulations of the Department of Environmental Resources, the Department hereby issues this permit for the operation of the air contamination source(s) described below.

Permit No. 46-318-023

Owner Moyco Industries, Inc.

Address 200 Commerce Drive

Montgomeryville, PA 18936

Attention

Source(s) Surface(Roll) Coater & Drying Oven

Air Cleaning Device

Location 200 Commerce Drive

Montgomeryville

Montgomery County

This permit is subject to the following conditions:

1. That the source(s) and any associated air cleaning devices are to be:

   a. operated in such a manner as not to cause air pollution;
   b. in compliance with the specifications and conditions of the plan approval issued under the same number;
   c. operated and maintained in a manner consistent with good operating and maintenance practices.

2. This permit is valid only for the specific equipment, location and owner named above.

(SEE THE ATTACHED ADDITIONAL CONDITIONS)

Failure to comply with the conditions placed on this permit is a violation of Section 127.25. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Resources will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued December 19, 1991

Expires December 31, 1992

N. Rao Kona

N. RAO KONA
Regional Air Pollution Control Engineer

: Central Office
Southeast Regional Office

65. January 22, 1992 Operating Permit #46-318-022 (1st page only)

Provided by: MOYCO

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
FIELD OPERATIONS - AIR QUALITY CONTROL

OPERATING PERMIT

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the rules and regulations of the Department of Environmental Resources, the Department hereby issues this permit for the operation of the air contamination source(s) described below.

Permit No. 46-318-022

Owner Moyco Industries, Inc.

Address 200 Commerce Drive

Montgomeryville, PA 18936

Attention

Source(s) Surface(Roll) Coater&Drying Oven

Air

Cleaning .

Device .

Location 200 Commerce Drive

Montgomeryville

Montgomery County

This permit is subject to the following conditions:

1. That the source(s) and any associated air cleaning devices are to be:

   a. operated in such a manner as not to cause air pollution;
   b. in compliance with the specifications and conditions of the plan approval issued under the same number;
   c. operated and maintained in a manner consistent with good operating and maintenance practices.

2. This permit is valid only for the specific equipment, location and owner named above.

(SEE THE ATTACHED ADDITIONAL CONDITIONS)

Failure to comply with the conditions placed on this permit is a violation of Section 127.25. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Resources will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued . 01/22/92

Expires 01/31/93

N. Rao Kona

N. RAO KONA
Regional Air Pollution Control Engineer

Central Office
Southeast Regional Office

66. December 5, 1997 Operating Permit #46-318-038 (1st page only)

Provided by: MOYCO

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
FIELD OPERATIONS - BUREAU OF AIR QUALITY

OPERATING PERMIT

(REVISED 3/15/99)

In accordance with provisions of the Air Pollution Control Act, the act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the Rules and Regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source(s) described below:

Permit No.	46-318-038	**Source(s)**	Surface Coating Facility
Owner	Moyco Technologies, Inc.	**Air**	Thermal Oxidizer
Address	200 Commerce Drive	**Cleaning**	
	Montgomeryville, PA 18936	**Device**	
Attention	Mr. C. Picardi	**Location**	200 Commerce Drive
	Director of Technology		Montgomery Township
			Montgomery County

This permit is subject to the following conditions:

1. That the source(s) and any associated air cleaning devices are to be:
   a. operated in such a manner as not to cause air pollution;
   b. in compliance with the specifications and conditions of the plan approval issued under the same number;
   c. operated and maintained in a manner consistent with good operating and maintenance practices.
2. This permit is valid only for the specific equipment, location and owner named above.

(SEE ADDITIONAL CONDITIONS ATTACHED)

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the Rules and Regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued 12/05/1997

Expires 12/05/2002

Francine Carlini
Regional Manager
Air Quality

cc: Division of Permits, RCSOB
Administration
SEFO
Re (GJC)250-6

67. October 13, 1987 PADEP review of SSS Report and Work Plan

Provided by: USEPA

STD-501 1-84

COMMONWEALTH OF PENNSYLVANIA
Environmental Resources
October 13, 1987
8-354-1948

SUBJECT: Review of Solid State Scientific, Inc.
Report and Work Plan
Montgomeryville, Montgomery County

TO: BRUCE D. BEITLER
Operations Supervisor

Thru: LAWRENCE H. LUNSK
Waste Management Facilities
Supervisor

FROM: SARAH PANTELIDOU SP
Hydrogeologist

I have reviewed the report and work plan and my comments follow:

Information provided by the consultant (Thor Helgason of Dames and Moore) revealed that an unknown prospective property owner installed four wells at the site. Subsequent ground water sampling revealed the volatile contamination in well 3. The solvents apparently originated in an underground tank used to store waste solvent from an electroplating operation. A closure plan (approved by DER?) was developed and carried out: Removal of the tank and its piping took place. Dames and Moore's position is that additional soil should be removed from the area around Well 3. I agree.

The report and work plan are approved with the following exceptions:

1. The Bureau of Dams and Waterways should be notified of the soil removal activity near a stream;

2. The voids encountered in boring 5 should be explained;

3. In task 6 of the work plan, regardless of the screening process used to identify contamination, soil removal should continue until 1 ppm total volatile organics remain in the soil.

4. Material used for backfilling should minimize infiltration of runoff into the area.

cc: George Danyliw, Field Supervisor
John Smith, Bureau of Dams and Waterways
Marilyn Shup, Field Supervisor, Water Quality
Re 30 (DAC)286

VSLP

68. April 16, 1975 Letter from SSS to PADEP Regarding Tank and Contaminated Soil

Provided by: PADEP

SOLID STATE SCIENTIFIC INC

MONTGOMERYVILLE PENNA 18936 ☐ 215-855-8400
TWX 510-661-7261

April 16, 1975

APR 18 1975

WATER
NORRISTOWN REGIONAL

Mr. Stephen F. Pedersen
Environmental Protection Specialist
Dept. of Environmental Resources
1875 New Hope Street
Norristown, Pa. 19401

Dear Mr. Pedersen:

I wish to thank you for your help this morning on the phone pertaining to the public notice.

A public notice worded per your suggestion has been placed in The Bulletin and will run for four (4) weeks. I have requested a Proof of Publication form from the newspaper publisher. At the end of the 4th week the paper will supply me with the proper affidavit.

To bring you up to date, the old tank and contaminated soil has been removed on schedule and disposed of properly. In my opinion, we have now complied with everything that you have suggested in your letter of March 24, 1975, with the exception of the permit which is being worked on.

Thank you for your help in this matter.

Yours truly,

M. R. Kapelli
Manager of Plant & Industrial Engineering

MRK:cas